

Serial No. 10/614,811  
Reply to the Office Action dated May 28, 2004

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

Claims 1 and 2. (Canceled)

Claim 3. (Currently Amended) A method of dyeing the hair, comprising:  
mixing a first pack formulation and a second pack formulation, said first pack formulation comprising the following ingredients (A) to (D):

(A) ammonia or an ammonium salt                      0.1 to 1 mol/kg,

(B) a carbonate with the proviso that                      0.001 to 1 mol/kg,  
said carbonate is other than an  
ammonium salt,

(C) a water soluble salt of iron,                      0.1 to 10,000 ppm,

(D) a chelating agent, wherein the molar ratio of (A) to (B) ranges from 0.1 to 5, and  
the first pack formulation has a pH ranging from 8.5 to 12; and said second pack comprising  
an acidic hydrogen peroxide solution as an oxidizing agent;

applying the mixed first and second pack formulations to the hair;

permitting the applied mixed formulation to dye the hair; and then

removing the applied mixed formulation from the hair.

Serial No. 10/614,811

Reply to the Office Action dated May 28, 2004

Claim 4. (Previously Presented) The method of dyeing hair of Claim 3, wherein the second pack formulation contains about 6 wt % hydrogen peroxide.

Claim 5. (Previously Presented) The method of dyeing hair of Claim 3, wherein the hair is dyed at a temperature ranging from about 15 to 40° C for about 1 to 50 minutes.

Claim 6. (Currently Amended) The method of dyeing hair of Claim 3 5, wherein the hair is dyed ~~at a temperature ranging from~~ for about 10 to 30 minutes.

Claim 7. (Previously Presented) The method of dyeing hair of Claim 3, wherein the applied formulation is removed from the hair by washing the hair.

Claim 8. (Previously Presented) The method of dyeing hair of Claim 3, wherein the content of said ingredient (D) in the first pack formulation is 0.01 to 10 wt % based on said composition.

Claim 9. (Previously Presented) The method of dyeing hair of Claim 3, wherein said water soluble salt of iron is ferrous sulfate or ferrous chloride.

Claim 10. (Previously Presented) The method of dyeing hair of Claim 3, wherein the chelating agent (D) is ethylenediaminetetraacetic acid, hydroxyethylethylenediaminetriacetic acid, diethylenetriaminepentaacetic acid, nitrilotriacetic acid, triethylenetetraminehexaacetic

Serial No. 10/614,811

Reply to the Office Action dated May 28, 2004

acid, a phosphonic acid, tripolyphosphoric acid, ascorbic acid, citric acid, maleic acid or salts thereof.

Claim 11. (Previously Presented) The method of dyeing hair of Claim 3, wherein said carbonate (B) of the first pack formulation is sodium carbonate, sodium hydrogencarbonate, potassium carbonate, potassium hydrogencarbonate, guanidine carbonate, guanidine hydrogencarbonate, lithium carbonate, calcium carbonate, magnesium carbonate or barium carbonate.

Claim 12. (Previously Presented) The method of dyeing hair of Claim 3, wherein said pH ranges from 9 to 11.5.

Claim 13. (Previously Presented) The method of dyeing hair of Claim 3, wherein the amount of said carbonate in the composition ranges from 0.01 to 0.5 mol/kg.

Claim 14. (Previously Presented) The method of dyeing hair of Claim 3, wherein said molar ratio of (A) to (B) ranges from 0.2 to 3.